



LOC 0330

#2

OIPE

5/11/01

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/772,598

DATE: 02/12/2001
 TIME: 16:20:50

Input Set : A:\6315seq.list.app
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3 <110> APPLICANT: Pharmacia and Upjohn
 5 <120> TITLE OF INVENTION: Crystallization and Structure Determination of
 6 Staphylococcus Aureus Nad Synthetase
 8 <130> FILE REFERENCE: 268.63150101
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/772,598
 11 <141> CURRENT FILING DATE: 2001-01-30
 13 <150> PRIOR APPLICATION NUMBER: 60/179,261
 14 <151> PRIOR FILING DATE: 2000-01-31
 16 <160> NUMBER OF SEQ ID NOS: 2
 18 <170> SOFTWARE: PatentIn Ver. 2.1
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 282
 22 <212> TYPE: PRT
 23 <213> ORGANISM: S.aureus
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 29 Lys Arg Ile Asp Ser Ala Glu Glu Ile Met Glu Leu Lys Gln Phe Ile
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 32 Lys Asn Tyr Val Gln Ser His Ser Phe Ile Lys Ser Leu Val Leu Gly
 33 35 40 45
 35 Ile Ser Gly Gly Gln Asp Ser Thr Leu Val Gly Lys Leu Val Gln Met
 36 50 55 60
 38 Ser Val Asn Glu Leu Arg Glu Glu Gly Ile Asp Cys Thr Phe Ile Ala
 39 65 70 75 80
 41 Val Lys Leu Pro Tyr Gly Val Gln Lys Asp Ala Asp Glu Val Glu Gln
 42 85 90 95
 44 Ala Leu Arg Phe Ile Glu Pro Asp Glu Ile Val Thr Val Asn Ile Lys
 45 100 105 110
 47 Pro Ala Val Asp Gln Ser Val Gln Ser Leu Lys Glu Ala Gly Ile Val
 48 115 120 125
 50 Leu Thr Asp Phe Gln Lys Gly Asn Glu Lys Ala Arg Glu Arg Met Lys
 51 130 135 140
 53 Val Gln Phe Ser Ile Ala Ser Asn Arg Gln Gly Ile Val Val Gly Thr
 54 145 150 155 160
 56 Asp His Ser Ala Glu Asn Ile Thr Gly Phe Tyr Thr Lys Tyr Gly Asp
 57 165 170 175
 59 Gly Ala Ala Asp Ile Ala Pro Ile Phe Gly Leu Asn Lys Arg Gln Gly
 60 180 185 190
 62 Arg Gln Leu Leu Ala Tyr Leu Gly Ala Pro Lys Glu Leu Tyr Glu Lys
 63 195 200 205
 65 Thr Pro Thr Ala Asp Leu Glu Asp Asp Lys Pro Gln Leu Pro Asp Glu
 66 210 215 220
 68 Asp Ala Leu Gly Val Thr Tyr Glu Ala Ile Asp Asn Tyr Leu Glu Gly
 69 225 230 235 240
 71 Lys Pro Val Thr Pro Glu Glu Gln Lys Val Ile Glu Asn His Tyr Ile
 72 245 250 255 255

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82 <211> LENGTH: 271
83 <212> TYPE: PRT
84 <213> ORGANISM: B.subtilis
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90 Asp Pro Lys Gln Glu Ile Glu Asp Arg Val Asn Phe Leu Lys Gln Tyr
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93 Val Lys Lys Thr GLy Ala Lys GLy Phe Val Leu Gly Ile Ser GLy GLy
94 35 40 45
96 Gln Asp Ser Thr Leu Ala Gly Arg Leu Ala Gln Leu Ala Val Glu Ser
97 50 55 60
99 Ile Arg Glu Glu Gly Gly Asp Ala Gln Phe Ile Ala Val Arg Leu Pro
100 65 70 75 80
102 His Gly Thr Gln Gln Asp Glu Asp Asp Ala Gln Leu Ala Leu Lys Phe
103 85 90 95
105 Ile Lys Pro Asp Lys Ser Trp Lys Phe Asp Ile Lys Ser Thr Val Ser
106 100 105 110
108 Ala Phe Ser Asp Gln Tyr Gln Gln Glu Thr Gly Asp Gln Leu Thr Asp
109 115 120 125
111 Phe Asn Lys Gly Asn Val Lys Ala Arg Thr Arg Met Ile Ala Gln Tyr
112 130 135 140
114 Ala Ile Gly Gly Gln Gln Glu Gly Leu Leu Val Leu Gly Thr Asp His Ala
115 145 150 155 160
117 Ala Glu Ala Val Thr Gly Phe Phe Thr Lys Tyr Gly Asp Gly Gly Ala
118 165 170 175
120 Asp Leu Leu Pro Leu Thr Gly Leu Thr Lys Arg Gln Gly Arg Thr Leu
121 180 185 190
123 Leu Lys Glu Leu Gly Ala Pro Glu Arg Leu Tyr Leu Lys Glu Pro Thr
124 195 200 205
126 Ala Asp Leu Leu Asp Glu Lys Pro Gln Gln Ser Asp Glu Thr Glu Leu
127 210 215 220
129 Gly Ile Ser Tyr Asp Glu Ile Asp Asp Tyr Leu Glu Gly Lys Glu Val
130 225 230 235 240
132 Ser Ala Lys Val Ser Glu Ala Leu Glu Lys Arg Tyr Ser Met Thr Glu
133 245 250 255
135 His Lys Arg Gln Val Pro Ala Ser Met Phe Asp Asp Trp Trp Lys
136 260 265 270

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/772,598

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Input Set : A:\6315seq.list.app
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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number